			I	For use	of this	form, se	e FM 6-40;	; the p	orop	onent	agency	y is TR	ADOC.				
						SECTION	II. REGIST	RATIO	ЭИК	OMPU	TATION						
		ACI	HIEVED R	RANGE									EFLECTION	CORRE	CTION		
1	CHART RANG	E					(10 METERS)	7	COF	RECTED D	EFLECTION	(REGIST	RATION)				(I MID
2	REGISTERING	PHECE DISP	LACEMENT (F-/B+)			(10 METERS)	8	REG		PIECE DISP 6 (L+/R-)	LACEME	NT CORRECTION	ı			(1 MIL)
3	ACHIEVED RA	NGE (]	+ 2)				(10 METERS)	9	9 ADJUSTED DEFLECTION (7+8))		(1 MIL)		(1 MIL)
	REC	SISTERING	PIECE DISPLA	CEMENT	CORRECTIO	N		10	10 CHART DEFLECTION						(1 MIL)		
4	LATERAL DISPL	ACEMENT	(L/R)				(5 METERS)	11			TION CORI 10) (+L/-						_ (1 MiL)
5	ACHIEVED RAN	GE (3) ÷ 100	00				(10 METERS)	12	DRI (-A	FT CORRECT DJUSTED E	CTION ELEVATION)	(L)					(1 MIL)
6	REGISTERING P (4 +5) L+/R-	IECE DISPL	ACEMENT CO	RRECTION	١		(1 MIL)	13	GR DEF	APHICAL F	IRING TABL	E (GFD. XN ([]]] - [2)				_ (1 MIL)
Г						GFT	SETTING (MANU	JAL I	METHO	D)		•		DEF	LECTI RECT	ON ION
14	GFT	CHARGE		LOT		RANGE		EL	EVATIC	DN N		TIME			TOTAL		<u>ਜ</u>
"	GFT	CHARGE		LOT		RANGE		EL	EVATIC	ON		TIME					
15																	
16	G FT	CHARGE		LOT		RANGE		EL	.evatk	ж		TIME					
						GFT S	ETTING (C	OMPL	JTER	METHO	OD)					•	
17	AFU;REG	LOT		RANG	GE		RANGE CO	RRECTION	N		TIME	CORREC	TION		DEFLECTA	ON COF	RECTION
10	BUCS RESIDUALS	LOT		DEFLE	ECTION CO	RRECTION	FUZEK+/	•	-		RANG	ÆK+/	-				
	BOCS RESIDUALS			R													
											· · · · · · · · · · · · · · · · · · ·		PECIAL CO	RRECT	ION		
RE	MARKS						L/P/R	SECTO	OR ——	TR	ANSF	ER L	IMITS		CHG		· · · · · · · · · · · · · · · · · · ·
							CEN DF			DF RG	LEFT	CEN	TER RIGH	DF	CEN DI		
-							т	T	r	M	T			AXO	т		2000 M
	1	2	POS		BTRY	5 MV Unit	6 MV RG	7		8	POS EL		CORR RG	(1)	1		
GU	LATERAL CORR	100/F GFT	ໂ ເວ ⊔ ⊕	RR	COMP VE	Corr Fac (Tbl F) D+	Corr (4) X(5)	POS COR (F= -	rr -)	TOTAL RG Corr	® ÷ PER D E (TBL	DR 1m L	® ≈ 10M Plus CEN RG*	FS -	POS TI	NUS	GUN
#	(L/R) 5M	CEN F	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	න් 0.	(I/D) .1 M/S	0.1 M	1 M	5 M		<u>⑥+⑦</u> 1 M	1 p) ኅ	(10 M	0.1	0.1		#
ī				A1 0	77 17170		1,44	J.,,	•					J	<u> </u>		1
3		···	_														3
4																	4
5 6											1						5 6
7 8																	7 8
						SE	CTION II.	HASTY	/ TGI	PC				(HARG	E_	
INI	TIAL CHART D	ATA				RANG	E					DEF	LECTION				
	POSITION LATERAL CORRECTI (LEFT/RIGH		CORF	(ION ICTION RECTION	~ @	MUZZI. VEL.OX		ML VE	VSTY LIZZLE LOCI DRREC d	TY CTION~	©	POSITION RANGE CORRECTION (FORWARD - BACK +)		HASTY POSITIC QUADR ELEVATIO CORRE	ANT NC	ELEVA COR	DRANT
GUN	5 METERS		AS US	STED		0.1 ME		AS	LISTE		****	5 ME	e Ters	AS LISTE	D	1 MIL	4
2		-			-	-											
3																	
5				T-100	****												
	6 7																
8																	
īG'			BTRY				NTC.						· FC	OR SPEC	CIAL C	ORR I	USE
19			DIKY				OF THE FO						C	HART R	ANGE	TO TA	RGET

	MUZZLE	VEL OC	ITY REC	ORD			D	ATE		
	For use of this form, see				RADOC.		F	OWD	ER MODEL	
	FIRST-LOT CALIBRATION									
SHELL/FAMILY	FIRST POWDER LOT NUMBER		G	UN NUMBER/	CHARGE FIR	ED				
	ITEMS	1/	2/	3/	41	5/	6/		71	8/
1. WEAPON B	JMPER NUMBER									
2. WEAPON TO	JBE NUMBER									
	CHARGE STANDARD MUZZLE FROM TABULAR FIRING TABLE					: 				
	D MUZZLE VELOCITY COMPUTER SYSTEM (BCS)									
5. FIRST-LOT VARIATION	PIECE MUZZLE VELOCITY (LINE 4 - LINE 3 = LINE 5)									_
	SECOND-LOT CALIBRATION									
SHELL/FAMILY	POWDER GROUP		G	UN NUMBER/	CHARGE FIR	ED				
	ITEMS	1/	2/	3/	41	5/	6/	4	7/	8/
	OT CHARGE STANDARD ELOCITY (FROM TFT)									
7. SECOND-LO VELOCITY	OT CALIBRATED MUZZLE									
	OT PIECE MUZZLE VELOCITY (LINE 7 - LINE 6 = LINE 8)									
9. FIRST-LOT VARIATION	PIECE MUZZLE VELOCITY (LINE 5)									
	MUZZLE VELOCITY (LINE 8 - LINE 9 = LINE 10)									
		SEC	OND-LC	T INFER	RENCE		****			
	OT STANDARD MUZZLE (FROM TFT)									
12. CHANGE IN VARIATION	MUZZLE VELOCITY (LINE 10)							_		
13. FIRST-LOT VARIATION	MUZZLE VELOCITY (LINE 5)									
14. SECOND-LOT CALIBRATED MUZZLE VELOCITY VARIATION (LINE 12 + LINE 13 = LINE 14)										
15. CALIBRATE ENTRY) (LI										
REMARKS										

M90 VELOCIMETER WORK SHEET For use of this form, see FM 6-40; the proponent is TRADOC. CHARGE GROUP DATE AND TIME PROJECTILE FAMILY PROJECTILE MODEL POWDER LOT NUMBER PROJECTILE WEIGHT **CALIBRATION DATA** GUN 7 GUN 5 GUN 6 GUN 8 GUN 2 GUN 1 GUN 4 ITEMS GUN 3 CHARGE CHARGE CHARGE CHARGE CHARGE CHARGE CHARGE CHARGE 1. WEAPON BUMPER NUMBER 2. WEAPON TUBE NUMBER 3. STARTING POWDER TEMPERATURE 4. ENDING POWDER TEMPERATURE 5. AVERAGE POWDER TEMPERATURE **M90 VELOCIMETER READOUT ROUND 1 ROUND 2 ROUND 3 ROUND 4 ROUND 5 ROUND 6 ROUND 7 ROUND 8** READOUT AVERAGE **M90 VELOCITY COMPUTATION** 6. MUZZLE VELOCITY CORRECTION FOR NONSTANDARD CONDITIONS 7. CALIBRATED MUZZLE VELOCITY 8. NUMBER OF WARMUP ROUNDS FIRED REMARKS

	ERY DELIVERED orm see FM 6-20-40 or FM			Г
	SECTION A-MI	NEFIELD DATA		
1 TARGET NUMBER	2 PRIORITY		3 REQUESTER	
4 MINEFIELD END POINTS (COORDINATES) FROM	<u> </u>	10		
5 MINEFIELD DEPTH		6 MINEFIELD WIDTH		
7 ADAM (APERS) DENSITY		8 RAAMS (AT) DENS	ITY	
9 SELF DESTRUCT TIME SHORT	LONG [10 SCHEDULED MINE		ON-CALL
11 CAUTION NLT EMPLACEMENT TIME	12 APPROVAL AUTHOR	<u> </u>	13 DATE TIME GRO	DUP (DTG)
14 REMARKS				
	SECTION B-C	33/S3/ENGR		
15 DTG RECEIVED		16 DTG SAFETY ZONE	DISSEMINATED	
	SECTION C	-FSE/FSO		
18 DTG TO UNIT	19 DTG FROM UNIT		20 DTG TO G3 S3	ENGR
21 REMARKS				
- 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	SECTION D	FDC DATA		
22 TARGET NUMBER	23 FIRING UNIT		24 RANGE TO MINI	EFIELD CENTER
25 TRAJECTORY ADAM HIGH LOW RAAMS		26 DELIVERY TECHNIC	_	OBSERVER ADJUST
27 AIMPOINT COORDINATE(S) (LEFT AND RIGHT ADAM FROM	10	RAAMS FRO	M	10
29 REMARKS				

 SECTION E-MINEFIELD SKETCH WORK SHEET (SCALE 1:50,000)														
		-												
					-				-				 	
						_						 		
 									<u> </u>			-		

COMPUTER CHECKLIST

For use of this form, see FM 6-40. The proponent agency is TRADOC.

2 ADJUSTING ELEMENT/METHOD OF FIRE OF ADJUSTING ELEMENT 3 BASIS FOR CORRECTION 4 DISTRIBUTION 5 PROJECTILE 6 AMMUNITION LOT/CHARGE 7 FUZE 8 NUMBER OF ROUNDS 9 RANGE SPREAD, LATERAL SPREAD, ZONE OR SWEEP 10. TIME OF OPENING FIRE 11. TARGET NUMBER 7 AMMUNITION STANDARDS ADJUST FIRE FIRE COMMAND STANDARDS ADJUST FIRE FIRE FOR EFFECT FIRE COMMAND STANDARDS ADJUST FIRE 12. WARNING ORDER 13. PIECE TO FOLLOWPIECE TO FIREMETHOD OF FIRE 14. SPECIAL INSTRUCTIONS 15. PROJECTILE 16. AMMUNITION LOT 17. FUZE-FUZE SETTING 18. DELECTION 19. QUADRANT 20. METHOD OF FIRE BATTERY AMMUNITION COUNT BATTERY DATA BATTERY AMMUNITION COUNT BATTERY DATA BATTERY AMMUNITION COUNT BATTERY DATA BATTERY DATA BATTERY AMMUNITION COUNT TIME UNIT CALL SIGN KNOWN TIME UNIT CALL SIGN KNOWN TIME UNIT CALL SIGN KNOWN TIME UNIT CALL SIGN CHARGET INFORMAND TIME UNIT ON OF	FIRE (ORDER STANDARD	S	ADJUST FIRE	FIRE FOR EFFECT	PIECE DISPLACEMENT DATA				
2 AUJUSTRIBUTION 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1. UNIT TO FIRE					GUN		DISPLAC	CEMENT	
4. DISTRIBUTION 5. PROJECTILE 7. FUZE 8. MAMUNITION LOTICHARGE 9. RANGE SPREAD LATERAL SPREAD ZONE OR SWEEP 9. RANGE SPREAD LATERAL SPREAD ZONE OR SWEEP 10. TARGET NUMBER FIRE COMMAND STANDARDS ADJUST FIRE FIRE FOR FIRE COMMAND STANDARDS 13. PIECE TO FOLLOWPIECE TO FIREMETHOD OF FIRE 14. SPREAL INSTRUCTIONS 15. PROJECTILE 16. AMMUNITION LOT 17. FUZEFUZE SETTING 19. DUILDOWN BATTERY DATA GRIDIALTITUDE BATTERY GFT SETTING 11. HIGH EXPLOSIVE 21. HIGH EXPLOSIVE 22. DUAL-PURPOSE IMPROVED CONVENTIONAL MUNITIONS 23. ROCKET-ASSISTED PROJECTILES	2. ADJUSTING ELEMENTA	METHOD OF FIRE OF A	DJUSTING ELEMENT			NUMBER	GRID	LATERAL	RANGE	
5. PROJECTILE 5. AMMUNITON LOTICHARGE 4. 4. 4. 5. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	3. BASIS FOR CORRECTION	ON				1				
6. AMMUNITION LOTICHARGE 7. FUZE 9. 5. 5. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.	4. DISTRIBUTION					2				
8. NUMBER OF ROUNDS 8. NUMBER OF ROUNDS 9. RANGE SPREAD, LATERAL SPREAD, ZONE OR SWEEP 7. A 10. TIME OF OPENING FIRE 11. TARGET NUMBER 12. WARNING ORDER 13. PIECE TO FOLLOWIPICE TO FIREMETHOD OF FIRE 14. SPECIAL INSTRUCTIONS 15. PROJECTILE 16. AMMUNITION LOT 17. FUZEFUZE SETTING 18. DETLECTION 18. DETLECTION 19. QUADRANT 20. METHOD OF FIRE BATTERY DATA GRID/ALTITUDE AZIMUTH CALL SIGN BATTERY DATA GRID/ALTITUDE 21. HIGH EXPLOSIVE 22. LICATION TARGET NUMBER BATTERY GFT SETTING 23. ROCKET-ASSISTED PROJECTILES	5. PROJECTILE					3				
8. NUMBER OF ROUNDS 9. RANGE SPREAD, LATERAL SPREAD, ZONE OR SWEEP 10. TIME OF OPENING FIRE 11. TARGET NUMBER 11. TARGET NUMBER 12. WARNING ORDER 13. PIECE TO FOLLOWIPIECE TO FREMETHOD OF FIRE 14. SPECIAL INSTRUCTIONS 15. PROJECTILE 16. AMMINITION LOT 17. FUZEFIZE SETTING 18. DEFLECTION 19. QUADRANT 20. METHOD OF FIRE 18. AMMINITION COUNT 19. AMMINITION COUNT 19. ATTERY DATA GRID/ALTITUDE AZIMUTH 19. ATTERY DATA GRID/ALTITUDE AZIMUTH 21. CALL SIGN 24. FIRE PLAN 25. KNOWN FORM OF FIRE 26. AMMINITION COUNT 26. FIRE FORM 26. FIRE 27. ATTERY DATA GRID/ALTITUDE AZIMUTH 28. ATTERY DATA GRID/ALTITUDE AZIMUTH 29. ATTERY DATA GRID/ALTITUDE AZIMUTH 29. ATTERY DATA GRID/ALTITUDE AZIMUTH 20. METHOD OF FIRE 20. ATTERY DATA GRID/ALTITUDE AZIMUTH 20. ATTERY DATA GRID/ALTITUDE AZIMUTH 20. ATTERY DATA GRID/ALTITUDE AZIMUTH 21. HIGH EXPLOSIVE 22. DUAL-PURPOSE IMPROVED CONVENTIONAL MUNITIONS 23. ROCKET-ASSISTED PROJECTILES	6. AMMUNITION LOT/CHA	RGE				4				
9 RANGE SPREAD, LATERAL SPREAD, ZONE OR SWEEP 10. TIME OF OPENING FIRE 11. TARGET NUMBER 11. TARGET NUMBER 12. WARNING ORDER 12. WARNING ORDER 13. PIECE TO FOLLOWIPIECE TO FIREMETHOD OF FIRE 14. SPECIAL INSTRUCTIONS 15. PROJECTILE 16. AMMUNITION LOT 17. FUZEFUZE SETTING 19. DEFINED TO BATTERY DATA GRID/ALTITUDE AZIMUTH CALL SIGN 18. MATTERY DATA GRID/ALTITUDE AZIMUTH CALL SIGN 19. ALTITUDE AZIMUTH CALL SIGN 19. ALTITUDE AZIMUTH CALL SIGN 10. ALTIMUT ARGET INFORMATION ON TARGET SIRE 10. ALTITUDE AZIMUTH CALL SIGN 19. HIGH EXPLOSIVE 10. ALTITUDE AZIMUTH CALL SIGN 19. ALTITUDE AZIMUTH	7. FUZE					5				
10. TIME OF OPENING FIRE 11. TARGET NUMBER 11. TARGET NUMBER 12. WARNING ORDER 13. PIECE TO FOLLOWPIECE TO FIREMETHOD OF FIRE 14. SPECIAL INSTRUCTIONS 15. PROJECTILE 16. AMMUNITION LOT 17. FUZEFUZE SETTING 18. DEFLECTION 19. GUARANT 20. METHOD OF FIRE BATTERY AMMUNITION COUNT BATTERY DATA GRID/ALTITUDE AZIMUTH CALL SIGN BATTERY AMMUNITION COUNT BATTERY GFT SETTING 21. HIGH EXPLOSIVE 22. DUAL-PURPOSE IMPROVED CONVENTIONAL MUNITIONS 23. ROCKET-ASSISTED PROJECTILES 24. FIRE PLAN AMMUNITION SITE OF THE STEEL SITE SITE SITE SITE SITE SITE SITE SITE	8. NUMBER OF ROUNDS					6				
FIRE COMMAND STANDARDS ADJUST FIRE FIRE FOR FIRE FOR FINAL PROTECTIVE FIRE/ COPPERHEAD GRID TARGET NUMBER AMMING CIRCLE PRIORITY TARGET INFORMATION FINAL PROTECTIVE FIRE/ COPPERHEAD GRID TARGET NUMBER GRID TARGET NUMBER GRID TARGET NUMBER AMMUNITION LOT TO PROJECTILE BATTERY MAMUNITION COUNT BATTERY DATA GRID/ALTITUDE AZIMUTH CALL SIGN KNOWN POINT TARGET LOCATION TARGET BATTERY GFT SETTING BATTERY GFT SETTING IN HIGH EXPLOSIVE BATTERY GFT SETTING AZIMUTH CALL SIGN TO POINT TARGET LOCATION TARGET LOCATION TARGET AZIMUTH CALL SIGN TO POINT TARGET BATTERY GFT SETTING AZIMUTH CALL SIGN TO POINT TARGET LOCATION TARGET AZIMUTH CALL SIGN TO POINT TARGET AZIMUTH CALL SIGN AZIMU	9. RANGE SPREAD, LATE	RAL SPREAD, ZONE OF	R SWEEP			7				
FIRE COMMAND STANDARDS ADJUST FIRE FIRE FOR FIRE FOR FINAL PROTECTIVE FIRE/ COPPERHEAD TARGET NUMBER GRID TARGET NUMBER FIRE FOR GRID TARGET NUMBER FIRE FOR GRID TARGET NUMBER TARGET NUMBER FIRE FOR GRID TARGET NUMBER FIRE FOR FIRE FOR GRID TARGET NUMBER FIRE FOR GRID TARGET NUMBER FIRE FOR FIRE FOR FIRE FOR GRID TARGET NUMBER FIRE FOR FIRE FOR FIRE FOR GRID TARGET NUMBER FIRE FOR FIRE FOR FIRE FOR GRID TARGET NUMBER FIRE FOR FIRE FOR FIRE FOR GRID TARGET NUMBER FIRE FOR GRID TARGET NUMBE	10. TIME OF OPENING FIF	RE				8				
FIRE COMMAND STANDARDS ADJUST FIRE FIFE C FINAL PROTECTIVE FIRE COPPERHAD TARGET NUMBER GRID TARGET NUMBER GRID TARGET NUMBER TARGET NUMBER TARGET NUMBER GRID TARGET NUMBER T	11. TARGET NUMBER					AIMING CIRCLE				
13. PIECE TO FOLLOWIPIECE TO FIREMETHOD OF FIRE 14. SPECIAL INSTRUCTIONS 15. PROJECTILE 16. AMMUNITION LOT 17. FUZEFUZE SETTING 18. DEFLECTION 19. QUADRANT 20. METHOD OF FIRE BATTERY AMMUNITION COUNT BATTERY DATA GRID/ALTITUDE BATTERY AND CALL SIGN KNOWN POINT/ TARGET LOCATION TIME ON FIRE BATTERY GFT SETTING 21. HIGH EXPLOSIVE 22. DUAL-PURPOSE IMPROVED CONVENTIONAL MUNITIONS 23. ROCKET-ASSISTED PROJECTILES	FIRE CO	OMMAND STANDAR	DS	ADJUST FIRE		PRI	FINAL PROTE	CTIVE FIRE/	N	
14. SPECIAL INSTRUCTIONS 15. PROJECTILE 16. AMMUNTION LOT 17. FUZE/FUZE SETTING 19. OLADANT 20. METHOD OF FIRE BATTERY AMMUNITION COUNT BATTERY DATA GRIDIALTITUDE AZIMUTH CALL SIGN KNOWN POINT/ TARGET OF FIRE BATTERY AMMUNITION COUNT BATTERY DATA GRIDIALTITUDE AZIMUTH CALL SIGN KNOWN POINT/ TARGET OF FIRE BATTERY GFT SETTING 21. HIGH EXPLOSIVE 22. DUAL-PURPOSE IMPROVED CONVENTIONAL MUNITIONS 23. ROCKET-ASSISTED PROJECTILES	12. WARNING ORDER					GR	ID	TARGET	NUMBER	
15. PROJECTILE 16. AMMUNITION LOT 17. FUZEFUZE SETTING 18. DEFLECTION 19. QUADRANT 20. METHOD OF FIRE BATTERY AMMUNITION COUNT BATTERY DATA GRID/ALTITUDE AZIMUTH CALL SIGN KNOWN POINT/ TARGET LOCATION TIME OF FIRE BATTERY GFT SETTING 21. HIGH EXPLOSIVE 22. DUAL-PURPOSE IMPROVED CONVENTIONAL MUNITIONS 23. ROCKET-ASSISTED PROJECTILES	13. PIECE TO FOLLOW/PI	ECE TO FIRE/METHOD	OF FIRE							
16. AMMUNITION LOT 17. FUZE/FUZE SETTING 18. DEFLECTION 19. QUADRANT 20. METHOD OF FIRE BATTERY DATA GRID/ALTITUDE AZIMUTH CALL SIGN KNOWN POINT/ TARGET LOCATION TARGET FIRE BATTERY GFT SETTING 21. HIGH EXPLOSIVE 22. DUAL-PURPOSE IMPROVED CONVENTIONAL MUNITIONS 23. ROCKET-ASSISTED PROJECTILES	14. SPECIAL INSTRUCTIO	ins								
17. FUZE/FUZE SETTING 18. DEFLECTION 19. QUADRANT 20. METHOD OF FIRE BATTERY AMMUNITION COUNT BATTERY DATA GRID/ALTITUDE AZIMUTH CALL SIGN TARGET LOCATION TARGET FIRE BATTERY GFT SETTING 21. HIGH EXPLOSIVE 22. DUAL-PURPOSE IMPROVED CONVENTIONAL MUNITIONS 23. ROCKET-ASSISTED PROJECTILES	15. PROJECTILE									
18. DEFLECTION 19. QUADRANT 20. METHOD OF FIRE BATTERY AMMUNITION COUNT BATTERY DATA GRID/ALTITUDE AZIMUTH CALL SIGN KNOWN POINT/ TARGET ON TARGET FIRE BATTERY GFT SETTING 24. FIRE PLAN KNOWN POINT/ TARGET ON TARGET FIRE BATTERY GFT SETTING 21. HIGH EXPLOSIVE 22. DUAL-PURPOSE IMPROVED CONVENTIONAL MUNITIONS 23. ROCKET-ASSISTED PROJECTILES	16. AMMUNITION LOT									
19. QUADRANT 20. METHOD OF FIRE BATTERY AMMUNITION COUNT BATTERY DATA GRID/ALTITUDE AZIMUTH CALL SIGN KNOWN POINT/ TARGET LOCATION TARGET BATTERY GFT SETTING 21. HIGH EXPLOSIVE 22. DUAL-PURPOSE IMPROVED CONVENTIONAL MUNITIONS 23. ROCKET-ASSISTED PROJECTILES	17. FUZE/FUZE SETTING									
20. METHOD OF FIRE BATTERY AMMUNITION COUNT BATTERY DATA GRID/ALTITUDE AZIMUTH CALL SIGN KNOWN POINT/ TARGET COATION TARGET OF FIRE BATTERY GFT SETTING 21. HIGH EXPLOSIVE 22. DUAL-PURPOSE IMPROVED CONVENTIONAL MUNITIONS 23. ROCKET-ASSISTED PROJECTILES	18. DEFLECTION									
BATTERY AMMUNITION COUNT BATTERY DATA GRID/ALTITUDE AZIMUTH CALL SIGN KNOWN POINT/ TARGET LOCATION TARGET FIRE BATTERY GFT SETTING BATTERY GFT SETTING 24. FIRE PLAN KNOWN POINT/ TARGET LOCATION TARGET FIRE BATTERY GFT SETTING 25. DUAL-PURPOSE IMPROVED CONVENTIONAL MUNITIONS 26. ROCKET-ASSISTED PROJECTILES	19. QUADRANT									
AMMUNITION COUNT BATTERY DATA GRID/ALTITUDE AZIMUTH CALL SIGN KNOWN POINT/ TARGET LOCATION TARGET FIRE BATTERY GFT SETTING 21. HIGH EXPLOSIVE 22. DUAL-PURPOSE IMPROVED CONVENTIONAL MUNITIONS 23. ROCKET-ASSISTED PROJECTILES	20. METHOD OF FIRE		,							
BATTERY GFT SETTING 21. HIGH EXPLOSIVE 22. DUAL-PURPOSE IMPROVED CONVENTIONAL MUNITIONS 23. ROCKET-ASSISTED PROJECTILES		BATTERY DATA	GRID/ALTITUDE	AZIMUTH	CALL SIGN	24. FIRE PLAN				
21. HIGH EXPLOSIVE 22. DUAL-PURPOSE IMPROVED CONVENTIONAL MUNITIONS 23. ROCKET-ASSISTED PROJECTILES						POINT/	LOCATION	ON	UNIT OF FIRE	
22. DUAL-PURPOSE IMPROVED CONVENTIONAL MUNITIONS 23. ROCKET-ASSISTED PROJECTILES										
21. HIGH EXPLOSIVE 22. DUAL-PURPOSE IMPROVED CONVENTIONAL MUNITIONS 23. ROCKET-ASSISTED PROJECTILES										
21. HIGH EXPLOSIVE 22. DUAL-PURPOSE IMPROVED CONVENTIONAL MUNITIONS 23. ROCKET-ASSISTED PROJECTILES			W 057 057							
22. DUAL-PURPOSE IMPROVED CONVENTIONAL MUNITIONS 23. ROCKET-ASSISTED PROJECTILES		BATTER	G GFI SEITING			<u> </u>	<u> </u>	·		
23. ROCKET-ASSISTED PROJECTILES	21. HIGH EXPLOSIVE									
	22. DUAL-PURPOSE IMPRO	OVED CONVENTIONAL	MUNITIONS	····						
3FMARKS	23. ROCKET-ASSISTED PR	ROJECTILES								
	DEMADES									

COPPERHEAD PLANNED TARGET LIST WORK SHEET For use of this form, see FM 6-40. The proponent agency is TRADOC. NUMBER OF TIME TARGET PRIORITY **PLATOON** SWITCH QUADRANT OF DESIGNATED **FIRED** ROUNDS **TARGET** LOCATION OBSERVER (√IF YES) (√IF YES) TO FIRE PLANNED CHARGE TRAJECTORY FLIGHT TIME DEFLECTION **ELEVATION** NUMBER SETTING (b) (c) (d) (e) (f) (g) (h) (i) (i) (1) (m) (n) (a) (k) REMARKS

		RSAL SAFETY 7					
FP:	GRID:		ALT:				
AOL:	DATE:		CHARGE AND TYPE:				
ANGLE OF FIRE:		SHELL(s):					
				MAX QE			
				DF LIMITS			
				MIN QE ()			
				MIN QE ()			
				MIN TI ()			
				MIN TI ()			
				MIN VT ()			
PLT:	_	PREREGISTRA	TION SAFETY	':			
		POSTREGISTRA	ATION SAFET	Y:			
	eses following "MIN QE" at under "MIN TI" and next to						

DA FORM 7353-R, JAN 96

M712 COPPERHEAD MET + VE WORK SHEET

For use of this form, see FM 6-40. The proponent agency is TRADOC.

NOTE: Use FT 155-AS-1

STEP	ACTION	VALUE	STEP	ACTION	VALUE
1	Record the Chart Rg to Tgt		26	Record Dir of Fire [25] (100)	
2	Record the Chart Df to Tgt		27	Record 6400 (If [26] > 6400)	
3	Record Obsr Visibility		28	Compute Dir of Fire [26] - [27]	
4	Record Obsr Cld Ht		29	Record Wind Direction [17]	
5	Record Tgt Altitude		30	Record 6400 (If [29] < [28])	
6	Record Obsr Altitude		31	Compute Wind Direction [29] + [30]	
7	Compute OT VI [5] - [6]		32	Record Dir of Fire [28] (100)	
8	Compute Tgt Cld Ht [4] - [7]		33	Compute Chart Dir Wind [31] - [32]	
9	Enter Chg, Visibility, Cld Ceiling Tbl With [1], [3], [8];		34	Enter Tbl C With [33]; Record the Range Wind Component	
40	Extract Change and Mode		35	Record Wind Speed [18]	
10	Record Tgt Altitude [5]		36	Compute Rg Wind [34] X [35] (1 knot)	
11	Record Btry Altitude		37	Enter Tbl C With [33]; Record	
12	Compute VI [10] - [11]			the Crosswind Component	
13	Compute		38	Record Wind Speed [18]	
14	Enter Tbl F With [1]; Record El From Col 3		39	Compute Crosswind [37] X [38] (1 knot)	
15	Compute Trial QE VI [13] + [14]		40	Enter Tbl F With [1]; Record the Crosswind Correction	
16	Enter Tbl A With [15]; Record		41	Compute Tot Df Corr [39] X [40] (1 mil)	
	Met Message Line Number		42	Record Chart Df [2]	
17	Record Wind Dir		43	Compute Df to Fire [41] + [42]	
18	Record Wind Speed		44	Record Btry Altitude [11] (10 meters)	
19	Record Air Temp		45	Record MDP Altitude From Met Msg	
20	Record Air Density		46	Compute ∆h [44] - [45]	
21	Record Common Df		47	Enter Tbl D With [46]; Record	
22	Record Chart Df [2]			the Temp Correction	
23	Compute Difference [21] - [22] (+/-)		48	Record Air Temp [19]	
24	Record AOL		49	Compute Corr Air Temp [47] + [48]	
25	Compute Dir of Fire [23] + [24] (1 mil)			DTG Tgt Nu	mber

M712 COPPERHEAD MET + VE WORK SHEET										
STEP	ACTION	VALUE	STEP	ACTION	VALUE					
50	Enter Tbl D With [46]; Record the Density Corr		73	Compute Corr Air Density [52]						
51	Record Air Density [20]		74	Enter 100						
			75	Compute Variation From Std [73] - [74]						
52	Compute Corr Air Density [50] + [51]		76	Enter Tbl F With [1] ; Record						
53	Record Propellant Temp			the Density	-					
54	Enter Tbl E With [53]; Record the Change in MV (0.1 m/s)		77	Compute Density Rg Corr [75] X [76] (0.1)						
55	Record MVV; Go to [62]; If Unknown, Enter 0; Go to [56]	6.	78	Record ∆V Rg Corr [64]						
F.C.			79	Compute Rg Wind Corr [67]						
56	Record Pullover Gauge Reading		80	Record Air Temp Corr [72]						
57	Enter Approx Loss in MV Tbl With [56], EFCs Equal to [56]		81	Compute Tot Rg Corr [77] + [78] + [79] + [80] (10 meters)						
58	Record the Erosion EFCs Since Last Pullover Gauge Reading		82	Record Chart Rg [1]						
59	Compute Total EFCs [57] + [58]	·	83	Compute Corr Rg [81] + [82]						
60	Enter Approx Loss in MV Tbl With [59], Record Loss in MV		84	Enter Tbl F With [83]; Interpolate the El From Col 3 (1 mil)						
61	Record Propellant Efficiency		85	Record ≯ Si [13]						
62	Compute ∆V [54] + [55] or [54] + [60] + [61] (I/D) (If no MVV available)		86	Enter Tbl G With [82]; Record the CSF for 1 mil Angle of Site						
63	Enter Tbl F With [1]; Record the MV Unit Correction		87	Compute CAS [85] X [86] Same Sign as [86] (0.1 mil)						
64	Compute ∆V Rg Corr [62] X [63]		88	Record ≯ Si [85]						
65	Record Range Wind [36]		89	Compute Si [87] + [88]						
66	Enter Tbl F With [1] ; Record		90	Record El [84] (1 mil)						
	the Rg Wind Correction		91	Compute QE to Fire [89] + [90]						
67	Compute Rg Wind Corr [65] X [66] (0.1)		92	Enter Tbl F With [83]; Record						
68	Record Corr Air Temp [49]			the Time Setting						
69	Enter 100		93	Record Switch Setting [92] Followed by Obsr PRF Code						
70	Compute Variation From Std [68] - [69]		94	Enter Tbl F With [83]; Record						
71	Enter Tbl F With [1] ; Record the Air Temp Rg Unit Corr			the Designate Time						
72	Compute Air Temp Rg Corr [70] X [71] (0.1 meter)			Firing Data Chg [9] Switch Setting [93] Df [43] QE [91]						

PAGE 2, DA FORM 7352-R, JAN 96